High Performance Muffle FurnaceFP102

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High Performance Muffle Furnace

FP102

Item Code : 214124
Model : FP102

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High Performance Muffle Furnace (FP102)

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Product Summary

High accuracy controller for better operability and visibility

Features of High Performance Muffle Furnace (FP102)

Features

Excellent heat tightness with a firmly sealed
chamber door
preventing contamination of samples

Features

High temperature accuracy at ±1.0°C

Features

Upgraded with long life R-thermocouple sensors

Features

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Features

Program operation of maximum 99 steps, 99 patterns, with repeat operation function

Features

Safety features include self-diagnostic functions, calibration off-set, key lock function, auto recovery after power failure, earth leakage breaker, automatic overheat prevention device and independent overheat prevention device

Features

Optional items include exhaust system, N2 gas loading device (with flow meter), temperature output terminal, time-up output terminal, sample tray, external communication terminal (RS232C), external communication adapter, event output terminal, operation signal output terminal and furnace floor plate

Specifications

Specifications

Item Code	214124
Model	FP102
Operating temp. range	100～1,150℃
Temp. control accuracy	±1.0℃（at 1150℃）
Temp. fluctuation	±1.0℃（at 1150℃）
Temp. distribution	±4.0℃（at 1150℃）
Temp. gradient	14℃（at 1150℃）
Max. temp. reaching time	Approx. 90 min.
Exterior material	Cold rolled steel plate with baked-on melamine resin finish
Interier material	Ceramic fiber
Sensor	R-thermocouple
Heater	Iron-chrome wire　2.4kW
Exhaust port	ø20mm (top)
Cooling fan	19/16W （50/60Hz）
Temp. controller	PID control by microprocessor
Temp. and timer setting	Digital setting by ▲/▼ keys
Temp. display	Setting temperature: Orange 5-digit LED digital display (resolution: 1°C), Temperature display: Green 4-digit LED digital display (resolution: 1°C)
Timer	1 min. to 99 Hrs. 59 min., Timer resolution 1 min. or 1 hr.

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Safety device	Self diagnostic functions (Sensor error, Heater disconnection, Triac short circuit, Main relay failure disconnection,
Accessories	Exhaust port cap, fuse, furnace floor plate
Internal dimensions （W×D×H mm）	100×150×100mm
External dimensions （W×D×H mm）	376×404×515mm
Remarks(dimensions)	1.5L
Power Source	Single phase　AC220V 24.5A The breaker capacity 20A　A plug is not attched Erectoric code length is 2m
Weight	29kg

Maintenance and warranty

Conditions: temperature and humidity: 23 deg.C+/-5 deg.C, 65%RH+/-20% (no load)

External dimensions do not include protrusions.

Optional items

‹

NO IMAGE

Exhaust unit, AC200V/AC220V (00)

Sample Tray (00)

NO IMAGE

Exhaust unit, AC100V/AC115V (00)

›

Same series products

High Performance Muffle Furnace (FP302)

High Performance Muffle Furnace (FP312)

High Performance Muffle Furnace (FP412)